



1401 Technology Transfer Program



2003 National Defense Authorization Act Section 1401

“Secretary of Defense shall designate a senior official of the Department of Defense **to coordinate all Department of Defense efforts** to identify, evaluate, deploy, and transfer to Federal, State, and local first responders **technology items and equipment** in support of homeland security.”

1. **“identify** technology items and equipment that have the potential to enhance public safety and improve homeland security;
2. **evaluate** whether such technology items and equipment would be useful to first responders;
3. **facilitate** the timely transfer;
4. **identify and eliminate** redundant and unnecessary research efforts
5. **expedite** the advancement of high priority Department of Defense projects
6. **communicate** with first responders and facilitate awareness of available technology items and equipment to support responses to crises.”

The Assistant Secretary of Defense for Homeland Defense has been assigned this responsibility.



Objectives of the 1401 Program

- Enhance the capabilities of first responders
- Develop an efficient, effective, and coordinated process for transferring DoD equipment and technology items to first responders
- Keep the DoD leadership, Interagency partners, and Congress informed on DoD's support to first responders and homeland security
- Improve compatibility and interoperability between DoD and Federal, State and local first responders
- Assist the National effort to support first responders by contributing to the *Enable* activities of the Department, as outlined in the DoD Strategy for Homeland Defense and Civil Support

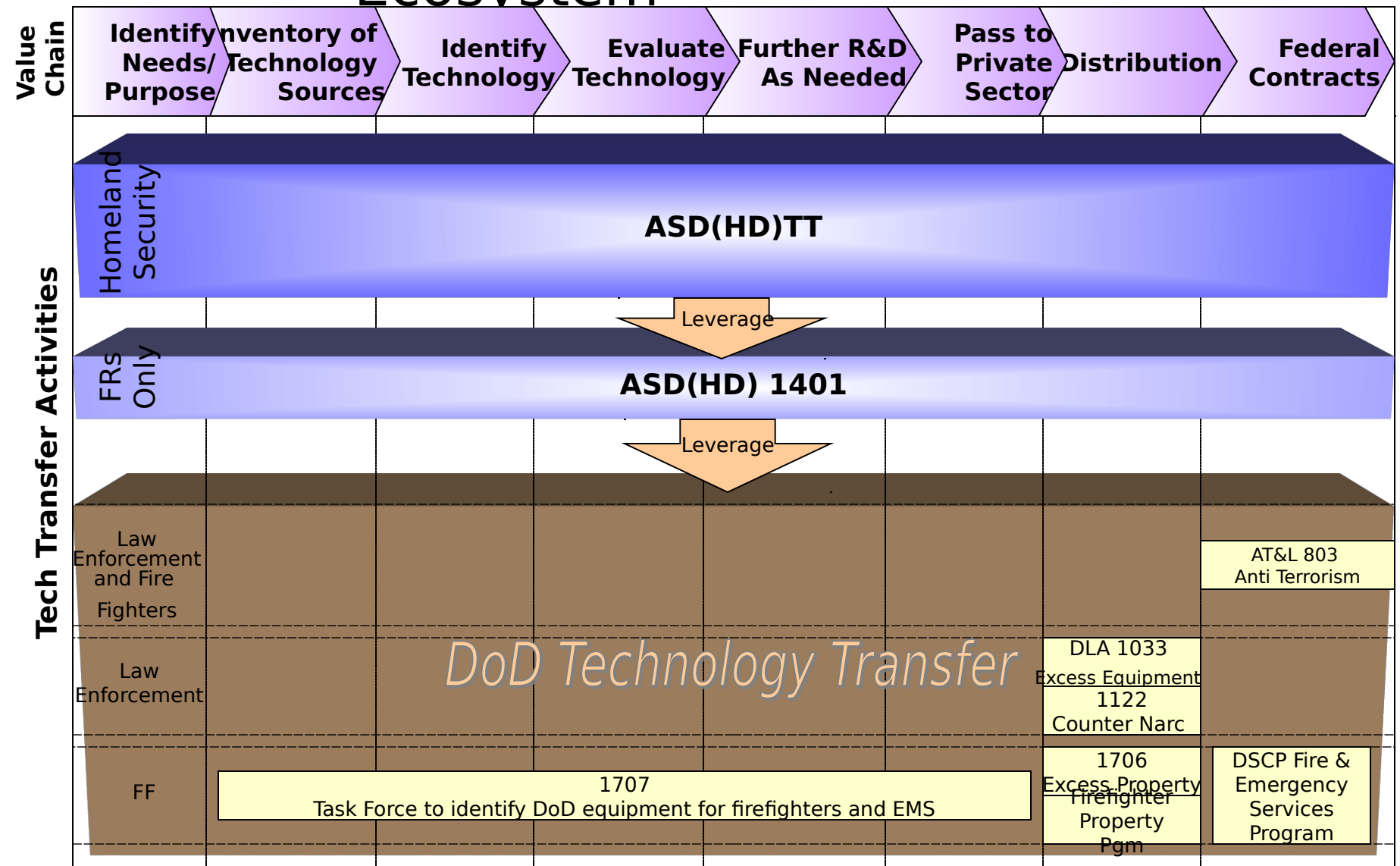


Coordinating DoD Efforts to Support First Responders

- 1401 acts as an “umbrella” over other existing technology and equipment transfer programs and aims to coordinate these efforts
- The following are some of the DoD transfer programs and authorities that 1401 has identified:
 - 1122 Program
 - 1033 Program
 - Fire and Emergency Services Program
 - DoD Firefighter Property Program
 - Robotics Systems Pool
 - Section 803
 - Section 1706
 - Section 1707



Existing DoD Technology Transfer Ecosystem





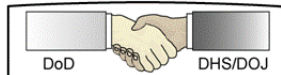
1401 Progress in 2005

- Established and implemented a Program Governance structure to include:
 - DoD 1401 Working Group
 - Implementation Support Office
 - Interagency Memorandum of Agreement (MOA) with DHS and DOJ
- Developed an Interagency process “Blueprint” for transferring equipment and technologies to first responders
 - “Tested” the process during the initial pilot
 - Documented lessons learned
- Participated in outreach activities to build awareness and support of the 1401 Program
 - Facilitated technology evaluation review with first responders
 - Co-sponsored the “*2005 Annual Technologies for Critical Incident Preparedness Conference and Exposition*” with DHS and DOJ



1401 Process

1401 Technology Transfer Process



MISSION: Provide First Responders/Public Safety with the Tools Needed to Protect the Homeland

Current Situation

- First Responders Receive DoD Technology in Localized Areas
- Uncoordinated & Fragmented Efforts
- Innovation Opportunities Lost
- Lack of Clarity on Roles & Responsibilities
- Lack of Awareness

Principles

- Compliant with Laws
- First Responder Driven
- Single Point of Coordination
- Comprehensive
- Leverage What Works
- Inclusive from "Get Go"
- Fast Cycle (Rapid Prototyping)

Future Situation

- All First Responders Efficiently Receive DoD Technology
- Process is Coordinated, Sustainable, Iterative & Inclusive
- Innovation is Captured and Leveraged
- Agencies and First Responders are Aware of the Process and Their Roles & Responsibilities
- Existing Investments are Leveraged

Pework

Brainstorm
Needs vs
Inventory

Identify
Technology
& Equipment

Prioritize

Try-on

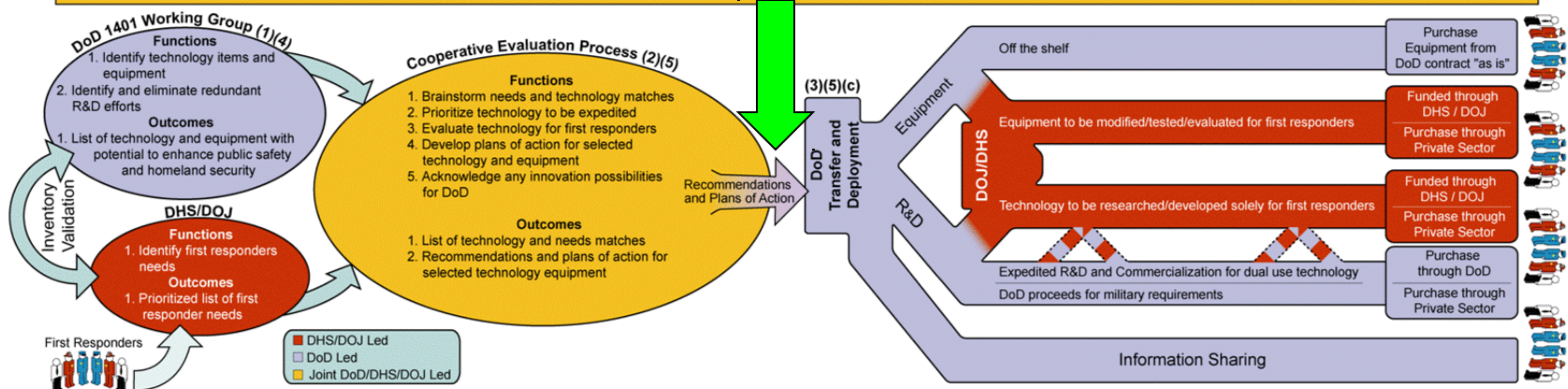
Recommend

Transfer Mechanisms

First
Responder
Purchase

Steering Group Process

- Provide interagency level oversight and strategic direction to the 1401 process
- Address interagency level technology transfer issues
- Advocate for funding for high priority technology transfer projects



Implementation Support Activity (4)/(5)(6)

- Implements strategic direction from the SG
- Supports the 1401 process through coordination and communication with participants, stakeholders and 1st responders
- Tracks information and activities related to 1401 technology transfer
- Provides administrative, meeting and legislative support for CEP activities





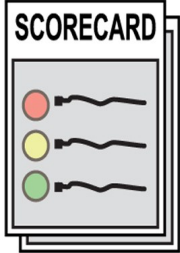
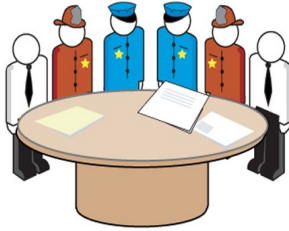
1401 Legislation Legend

- 1: Identify DoD technology items and equipment that has potential to enhance public safety and improve homeland security
- 2: Cooperate with Federal officials outside of DoD to evaluate whether such technologies would be useful to first responders
- 3: Facilitate the timely transfer, through identification of private sector manufacturers, of technology items to first responders
- 4: Identify and eliminate redundant and unnecessary research efforts within the DoD

- 5: Expedite the advancement of high priority DoD projects from research through initial manufacturing
- 6: Participate in outreach programs outside of DoD to communicate with first responders and facilitate awareness
- c: Enter into appropriate agreement with a nongovernmental entity to assist in carrying out the official duties



Cooperative Evaluation Process (CEP) Progress -2005

FEBRUARY	MARCH	APRIL	MAY	JUNE/JULY	AUGUST 16-18
Inventory Call to the Services Using First Responder Needs List	Initial DoD Inventory Complete (550 Technologies)	18 Technologies Selected Criteria: <ul style="list-style-type: none"> • DoD technology • High Technology Readiness Level (TRL) • Meets a First Responder need • Large breadth of impact 	Interviews with 18 Technology Principal Investigators (PIs)	Technologies Scored Criteria: <ul style="list-style-type: none"> • Meets First Responder Needs/Requirements • Impact on First Responders • Cost • Technology Maturity • Additional Considerations 	Five Technologies are "End User Evaluated" at Practitioners' Validation Meeting
					

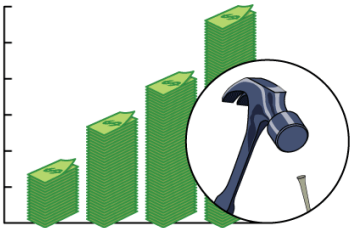


CEP Progress Continued

Open dialogue between first responders and laboratory Principal Investigators (PIs)

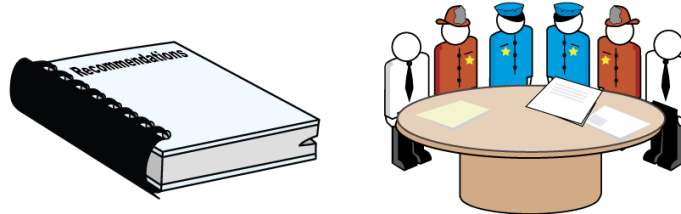
SEPTEMBER

First Responder modifications and cost estimates documented



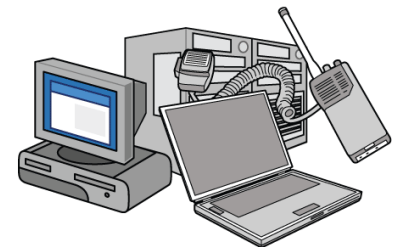
OCTOBER

**Recommendations report submitted
Interagency Discussions on sponsorship**



NOVEMBER

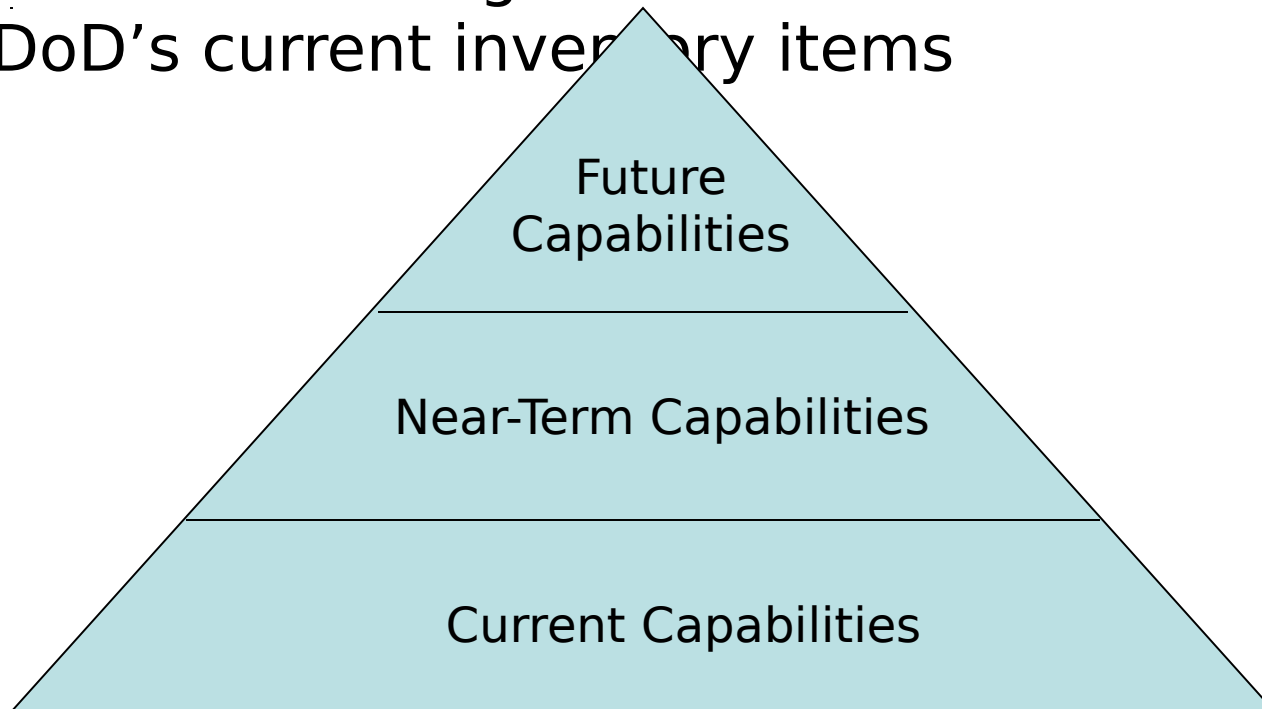
Provided visibility to the technologies at the DHS/DOJ/DoD Technologies for Critical Incident Preparedness Conference





Focusing the Effort

- In 2005, the focus was on future capabilities (short and longer term research and development efforts)
- In 2006 the Program's efforts need to include DoD's current inventory items



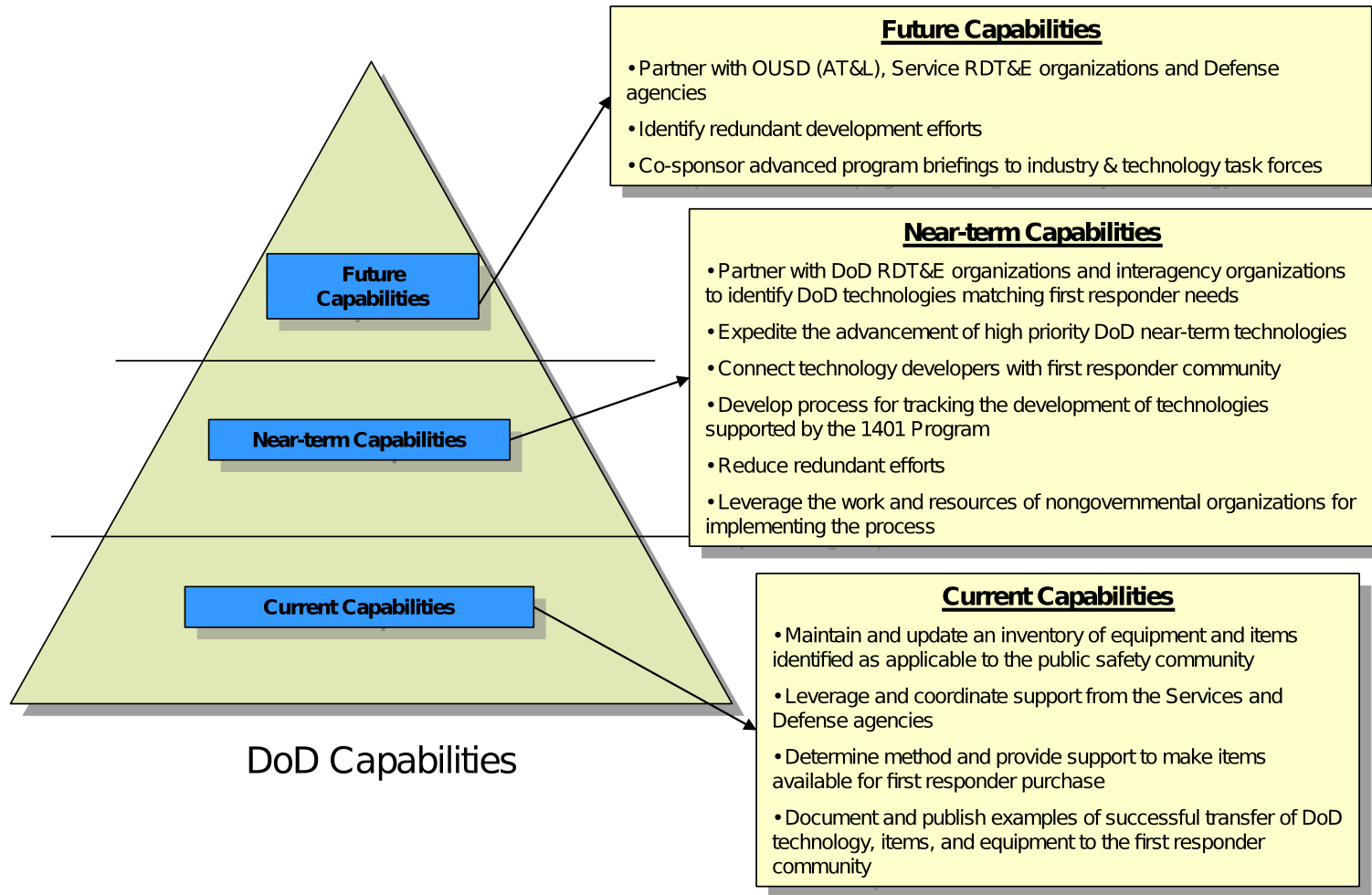


1401 Activities in 2006

- Developed a comprehensive approach to address current, near-term and future capabilities
- Worked with DLA to assess existing DoD equipment transfer programs and will develop a CONOPS for coordinating and expanding these programs
- Documenting DoD's support to first responders (success stories)
- Leveraging other resources
- Continuing outreach activities
- Re-establishing Interagency work with DHS and DOJ



1401 Approach





DoD Support to First Responders

- DoD is mandated to conduct the following programs
 - Section 1122 (\$700K sales FY05; \$200K sales FY06 YTD)
 - Section 1033 (\$123M acquisition value-FY05; \$100M acquisition value -FY06 YTD)
 - Section 1706
 - Section 803
- DoD executes the following programs on behalf of DHS
 - Interoperable Communications Technical Assistance Program (ICTAP)
 - Executed by SPAWAR San Diego
 - Has provided onsite assistance to more than 75 states, urban areas and metropolitan areas
 - Commercial Equipment Direct Assistance Program (CEDAP)
 - Executed by Fort Huachuca
 - Domestic Preparedness Equipment Technical Assistance Program (DPETAP)
 - Executed by the U.S. Army's Pine Bluff Arsenal
 - Homeland Defense Equipment Reuse Program (HDER)
 - Partnership between DHS Grants and Training, DOE, the Navy and the Health Physics Society



DoD Support to First Responders

- DoD transfer initiatives
 - Fire and Emergency Services Program (DLA)
 - The Economy Act of 1932 (successful model for Section 803)
 - Joint Robotics Pool (SPAWAR San Diego)
 - DoD Firefighter Property Program (DLA)
 - Possibly Section 1706
- Individual support to first responders (success stories)
 - Approximately 70 received to date, to include:
 - UAS support
 - PAN-TALON robots
 - Product Acoustic Signature System (PASS)
 - Regional Information Joint Awareness Network (RIJAN)
 - Load Carriage Technology
 - Tint Buster
 - First Responder Access Card (FRAC)



Leveraging Other Resources

- Working with DoD components and NGOs
 - OUSD (AT&L)
 - FirstLink
 - West Virginia High Tech Consortium



Outreach Activities

- Planning 8th Annual Technologies for Critical Incident Preparedness Conference (Atlanta, September 6-8th)
- Communicating with national first responder organizations, e.g. NFPA, IAFC, NSA, IACP
- Working with DoD components and NGOs to coordinate exhibit schedules
- Reaching out to DoD components to gain a better understanding of their first responder related activities, e.g. Natick Soldier Center, DSCP
- Continuing efforts to connect DoD lab representatives to the appropriate technology portfolio managers in DHS



Work with DHS

- DHS S&T has created a Technology Transition office
 - Committed to continuing 1401 relationship
 - Gain visibility and control over interactions between DoD components and DHS S&T portfolio managers
- Provided DHS with DoD lessons learned and recommendations for modifications to the next Cooperative Evaluation Process (CEP)
- Planning strategy for the next iteration of the CEP